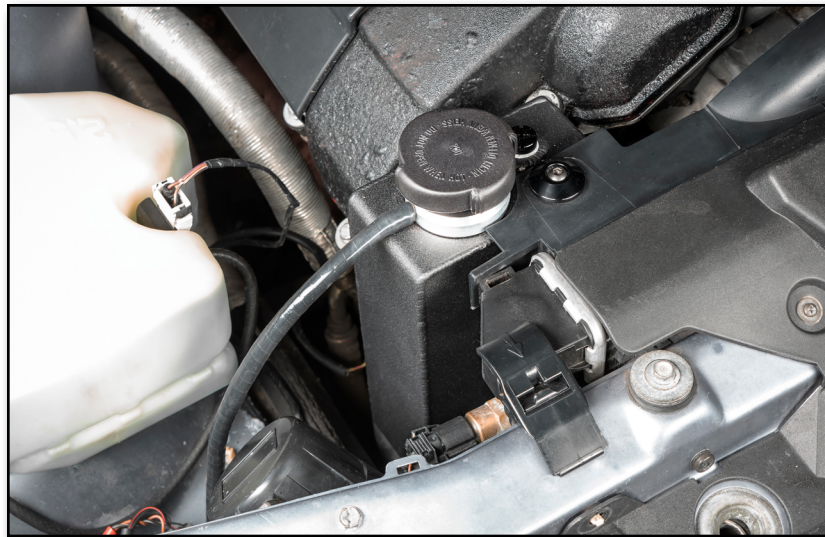




BMW E36 Aluminum Expansion Tank Kit Installation



Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

INSTALLATION NOTES

- **RH** refers to the *passenger side* of the vehicle.
- **LH** refers to the *driver side* of the vehicle.
- Always use the proper torque specifications.
- If applicable to this installation, torque specifications will be listed throughout the document and at the end as well.
- Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

GENERAL PREPARATION AND SAFETY INFORMATION

Turner Motorsport cares about your health and safety, please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- Whether lifting a vehicle using an automotive lift or a hydraulic jack, be sure and utilize the factory specified lift points.
- Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- **ALWAYS** support the vehicle with jack stands.
- **ALWAYS** read and follow all safety information and warnings for the equipment you are using.



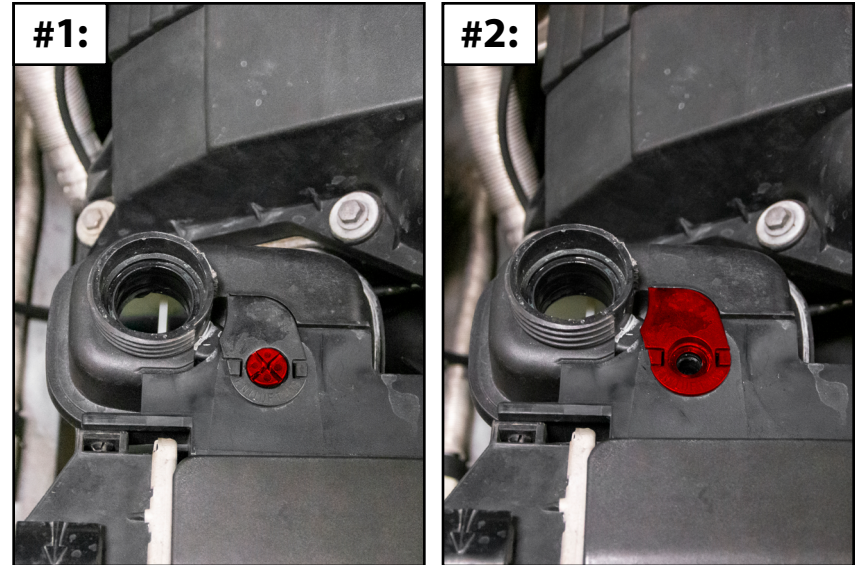
NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK EXPANSION TANK

Step 1: Flat Head Screwdriver

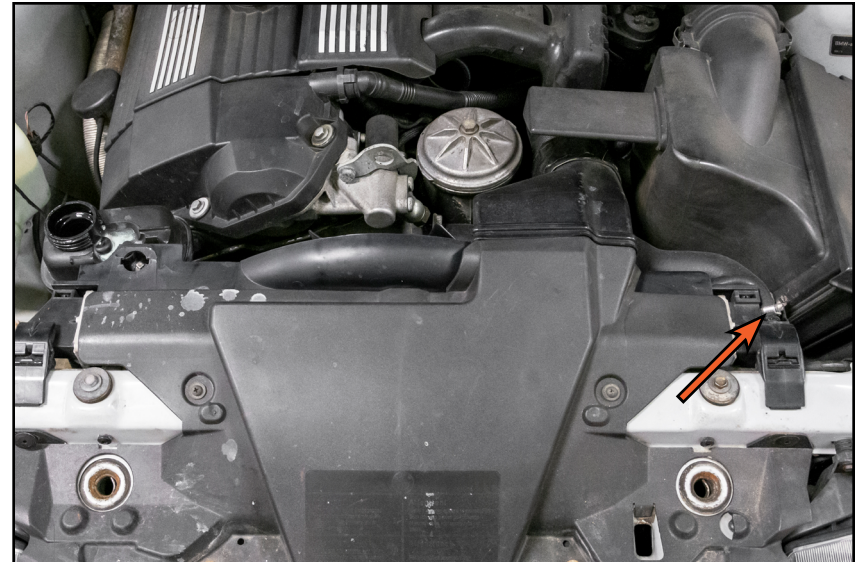
With the engine cold, open the expansion tank cap and extract as much coolant as possible. The goal is to drain enough of it to remove the stock expansion tank without making a mess.

Remove the plastic bleeder screw (highlighted in **RED** in **photo #1**), then depress the locking tabs and pull out the upper plastic bracket (highlighted in **RED** in **photo #2**).



Step 2: Flat Head Screwdriver -OR- 6mm Socket & Ratchet

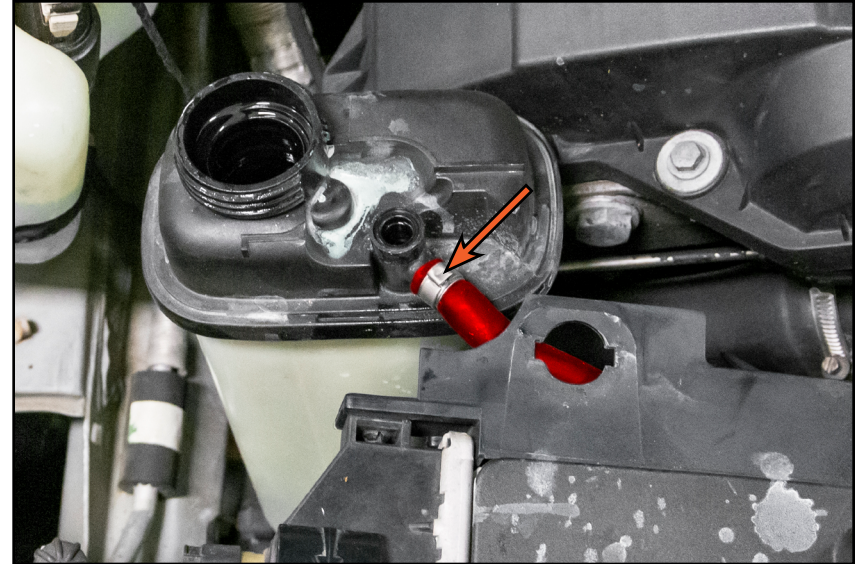
Loosen the clamp (arrow) which secures the upper expansion tank hose to the radiator on the LH side.



REMOVING THE STOCK EXPANSION TANK

Step 3: Cutting Pliers

Carefully pull the top of the expansion tank out from the plastic fan shroud, then cut off the clamp (arrow), and pull the upper expansion tank hose (highlighted in **RED**) free.



Step 4: Flat Head Screwdriver -OR- 6mm Socket & Ratchet

Lift the expansion tank up slightly and disconnect the coolant level sensor connector (highlighted in **RED** in the **photo #1**) underneath. Loosen the clamp (arrow in the **photo #2**) and pull the expansion tank free from the lower expansion tank hose.



INSTALLING THE NEW ALUMINUM EXPANSION TANK

Step 1: Flat Head Screwdriver

Transfer the coolant level sensor (highlighted in **GREEN** in **photo #1**) to the new expansion tank and tighten it until snug. Install the billet bleeder screw (arrow in **photo #2**) and tighten it until it makes contact.



Step 2: Flat Head Screwdriver -OR- 6mm Socket & Ratchet

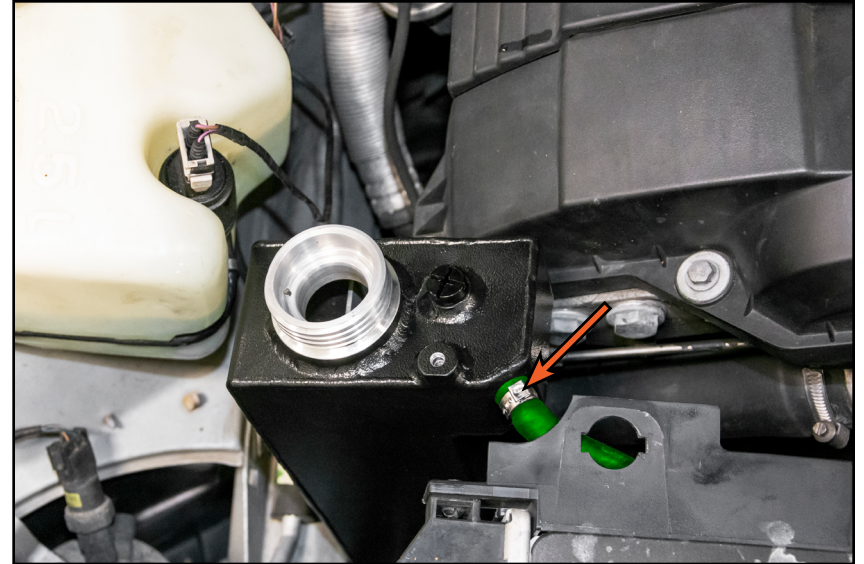
Lower the new expansion tank into position, then slide the lower expansion tank hose fully into place and tighten the clamp (arrow in **photo #1**). Reconnect the coolant level sensor connector (highlighted in **GREEN** in **photo #2**).



INSTALLING THE NEW ALUMINUM EXPANSION TANK

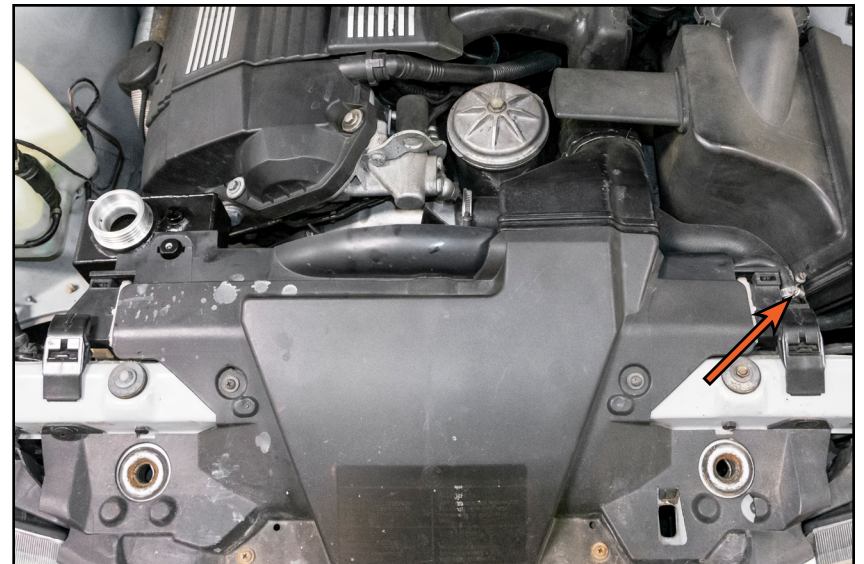
Step 3: Pinch Clamp Pliers

Replace the clamp (arrow), slide the upper expansion tank hose (highlighted in **GREEN**) onto the new expansion tank, then crimp the clamp to hold the hose into place.



Step 4: Flat Head Screwdriver -OR- 6mm Socket & Ratchet

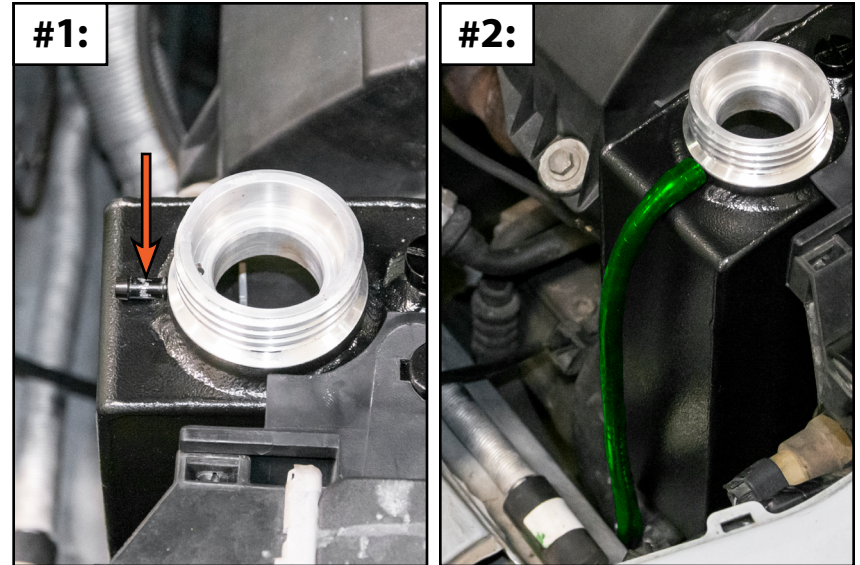
Slide the expansion tank back into place in the fan shroud, then reinstall the upper expansion tank hose onto the radiator and tighten the clamp (arrow) until snug.



INSTALLING THE NEW ALUMINUM EXPANSION TANK

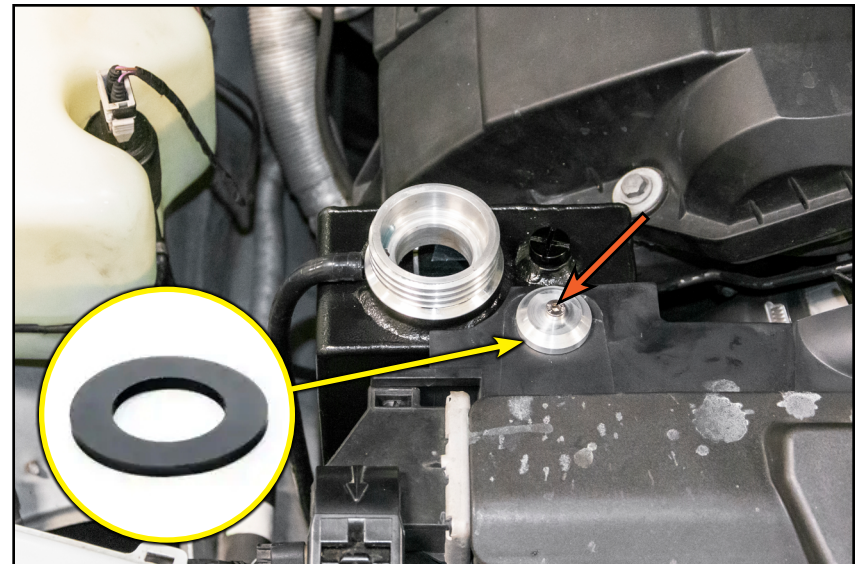
Step 5: Razor Blade

Thread the supplied barbed fitting (arrow in **photo #1**) into the top of the expansion tank, then trim off the flared end of the provided overflow hose (highlighted in **GREEN** in **photo #2**) and slide it onto the fitting. Route the hose to a suitable location, trimming to length as needed.



Step 6: 4mm (Allen) Socket & Ratchet

Install the provided rubber washer, then the clamping washer, securing it in place with the provided M6 screw (arrow).



INSTALLING THE NEW ALUMINUM EXPANSION TANK

Step 7:

Fill the expansion tank with new coolant.

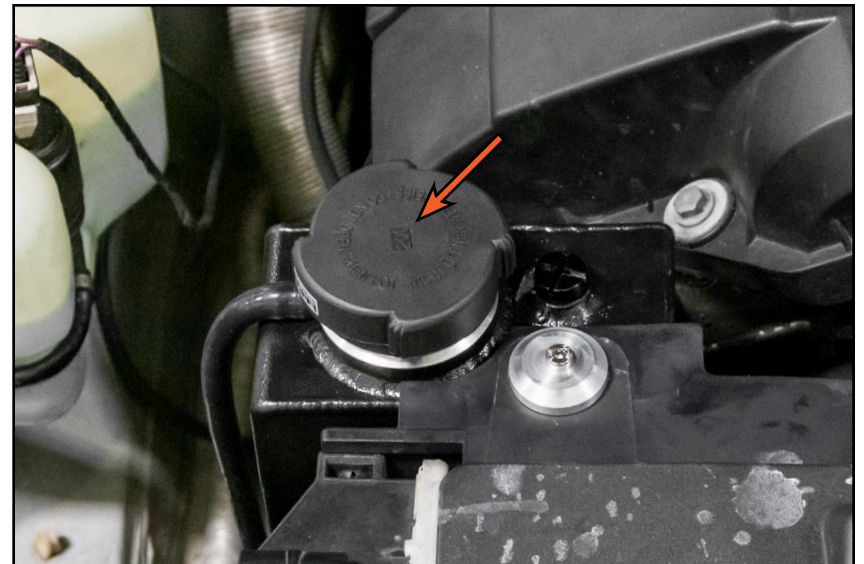
- The Turner logo inside the tank serves as the fill gauge. Once the coolant rises up to the logo plate it is full.
- Coolant level is only to be adjusted when the engine is COLD, and when the vehicle is sitting on a level surface.



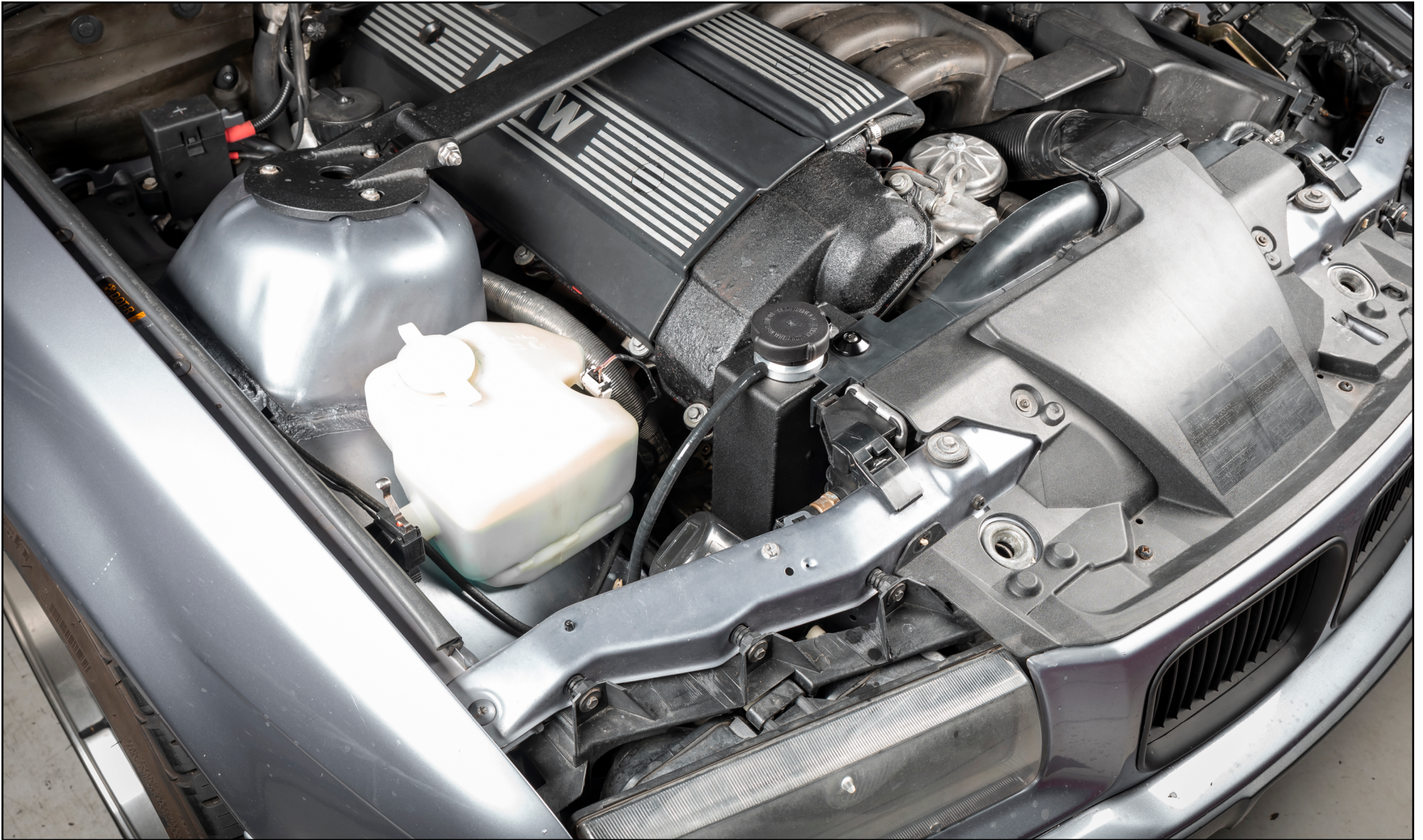
Step 8:

Reinstall the expansion tank cap (arrow), start the car, and check for leaks.

Congratulations, your installation is complete!



Your Aluminum Expansion Tank Kit installation is complete!



These instructions are provided as a courtesy by Turner Motorsport

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